

THIRD-ORDER LEVELING
SEA LEVEL DATUM OF 1929

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

37-088-23
SMITHLAND QUADRANGLE
79 KENTUCKY - 1 ILLINOIS
N3700-W8815/15
DIAGRAM NJ 16-7
PADUCAH

Livingston, Marshall & McCracken Counties, Ky.
Massac & Pope Counties, Ill.

Final adjustment of 1953

Edition of 3/13/74

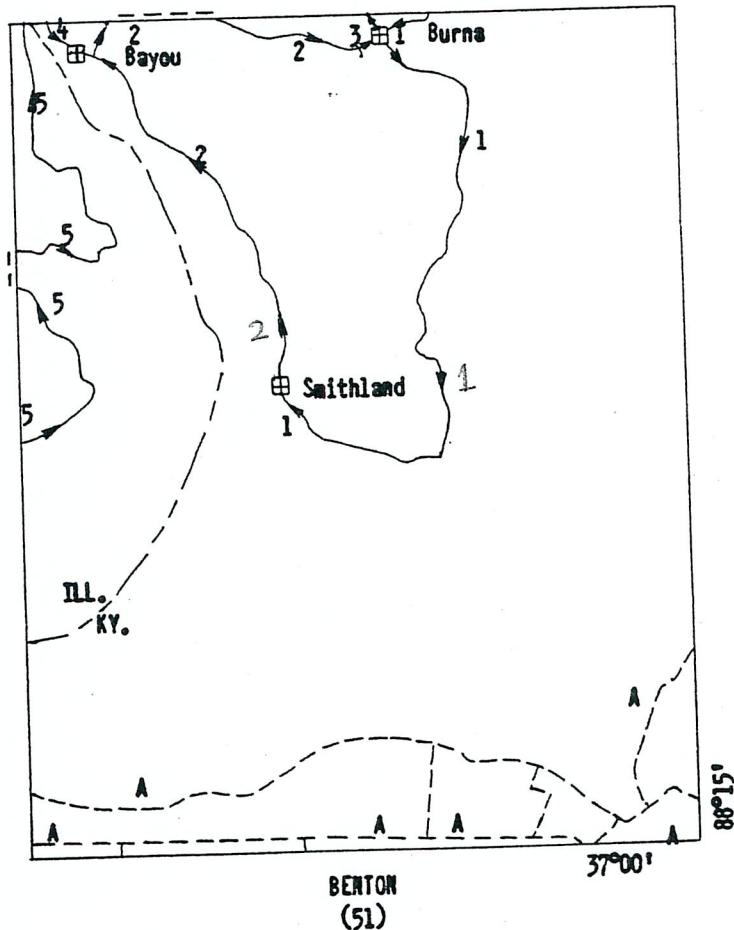
PR: LB/mjh

Only the permanent marks
are listed for lines
run more than 25 years
before edition date

GOLCONDA
(108 KY. - 7 ILL.)

PADUCAH
(80 KY.-2 ILL.)

EDDYVILLE
(78)



NGS (USGS) VERTICAL CONTROL DATA

A. Quadrangle 370882

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SMITHLAND QUADRANGLE
Book B2516

79 KENTUCKY

37-088-23

3

ISOLATED BENCH MARKS (By F. L. Whaley, 1916, Bulletin 673; H. S. Sennseney, 1926,
Book B2516

Foot

Hamletsburg, 1.8 mi W. and 0.5 mi N; near SW corner section 5, T. 16 S. R. 7 E.; 25 ft S. and
30 ft E. junction of L-rd. W.; 240 ft W. and 30 ft E. junction of L-rd. E.; 17 ft E. of NW
corner of yard at Yellowbird School; in concrete post; standard tablet stamped
"PRIM TRAV STA NO 121 F 1925 343" (Reported destroyed, 1966)

343.013

Smithland, 8.3 mi E. of; 1.5 mi NE. of Paradise Church; 300 ft S. of house of W. M. Cotter's
70 ft W. and 90 ft S. of forks of rd.; 30 ft from barn; in concrete post; standard tablet
stamped "PRIM TRAV STA NO 42 M 1926"

476.427

Smithland, 11.5 mi E. of; on Sugar Creek Road; 0.4 mi N. of Sugar Creek Church on E. side of rd.;
600 ft S. of Y-intersection in rd.; 190 ft NW. of NW. corner of 1½ story frame house; 95 ft SE.
of S. end of an entrance pipe under private entrance SE.; 41 ft E. of center of Sugar Creek Road;
30 ft W. of center of private entrance SE.; 9 ft SE. of 14-in. oak tree; 7 ft SW. of 10-in oak
tree; in concrete post projecting 0.2 ft above ground; standard tablet stamped
"I S 1926 RESET 1971"

419.532

Tilime, 0.7 mi W. of, along old Lower Dykusburg Road; now abandoned and superseded by State Highway
70, which runs nearby and S. of this point; near right-angle bend in a lane rd.; 40 ft E. of former
rd. forks (now a field rd.); on N. side of abandoned rd.; on E. side of fence; near group of
large stumps; in concrete post; standard tablet stamped "2 S 1926 341"

340.863

Smithland, 10.9 mi SE. of; 1.25 mi SE. of Paradise Church; 25 ft N. and 15 ft E. of intersection
of rds.; 250 ft SE. of house of C. E. Egner's; 5 ft N. and 4 ft W. of blazed oak tree; in
sandstone post; standard tablet stamped "PRIM TRAV STA NO 60 M 1926" (Reported not found, 1958) 416.119

Gilbertsville, 215 ft NW. of depot; 27 ft SW. of nearest rail; 6 ft S. of edge of grassy bank; 3 ft
N. and 7 ft W. of telephone pole; in concrete post; standard tablet stamped
"PRIM TRAV STA NO 56 M 1926" (Reported destroyed, 1958)

352.571

Calvert City, directly in front of Lee Cox's store between rd. and RR.; 135 ft W. and 33 ft S. of
SW. corner of RR. station; in concrete post; standard tablet stamped
"PRIM TRAV STA NO 55 M 1926" (Reported not found, 1958)

355.836

Calvert City, 2.5 mi W. of; 40 ft S. and 26 ft W. of northbound track at Cloud crossing; in
concrete post; standard tablet stamped "PRIM TRAV STA NO 54 M 1926" (Reported destroyed, 1958) 347.486

Little Cypress, 600 ft W. of express station; in NE. corner of Harry Corder's front yard; 27 ft S.
of nearest rail of northbound track; in concrete post; standard tablet stamped
"PRIM TRAV STA NO 53 M 1926" (Tied by NGS, 1947)

349.022

Little Cypress, 3.0 mi W. of; at Styles rd. crossing; at S. side of RR. right-of-way; 0.2 mi E.
of milepost L 218; 215 ft W. of signal tower 217.8; 50 ft S. and 30 ft W. of rd. crossing;
in concrete post; standard tablet stamped "PRIM TRAV STA NO 52 M 1926" (Reported disturbed, 1958) 347.106

Smithland, 4.0 mi S. of; on Paducah Highway; 37 ft N. and 7 ft W. of crossroads; 3 ft S. of corner
fence; at SE. corner of field in concrete post; standard tablet stamped
"PRIM TRAV STA NO 48 M 1926" (Reported not found, 1958)

368.120

Burns, 2.6 mi W. of; 5.4 mi E. of Bayou; 200 ft W. of Mizell schoolhouse on top of high ridge; on
S. side of rd. 160 ft W. of rd. forks; in top of yellow sandstone ledge outcrop; standard tablet
stamped "587 KY. 1916" (Reported not found, 1954)

586.371

ISOLATED BENCH MARKS (Cont'd.)Feet

Smithland, 6.9 mi SW. of; 0.6 mi SW. of Mud Springs School house; 90 ft S. and 45 ft W. of forks of rd. to W. L. Bellamy's place; 40 ft W. of private garage; in concrete post; standard tablet stamped "PRIM TRAV STA NO 49 M 1926" (Reported not found, 1958)	455.676
Smithland, 9.8 mi SW. of; 1.25 mi SW. of Ledbetter Post Office; 30 ft N. of rd. directly in front of Panhandle School; 19 ft S. of blazed oak tree; in concrete post; standard tablet stamped "PRIM TRAV STA NO 50 M 1926"	349.543
Paducah, 3.0 mi SE. of; directly opposite house of O. Throlkeld; 30 ft S. of hwy.; 55 ft W. of Fox's service station; in concrete post; standard tablet stamped "PRIM TRAV STA NO 51 M 1926"	346.803

LINE 1.

By J. J. Recktenwald, 1953; Book AV2022

U. E., Burna, 0.5 mi E. along U. S. Highway 60; at small dip in hwy.; at drain crossing; 21 ft S. and 2.5 ft lower than centerline of hwy.; in concrete culvert; on centerline of S. headwall; chiseled square	578.87
U. E., Burna; in centerline of triple Y-jct. of U. S. Highway 60 and State Highway 135; 10 ft N. of Cedar tree; at base of flag pole; on concrete; chiseled square	554.01
Burna, 0.6 mi SE. of; on E. side of rd. at T-rd. W.; in concrete post; standard tablet stamped "PRIM TRAV STA NO 5 1915 RESET 1952 559" (Reported not found, 1966)	559.016
Reference mark, 103 ft N. of tablet; 30 ft E. of rd.; 2 ft W. of fenceline; in notch in root on E. side of 32-in. oak tree; copper nail and washer	563.47
U. E., Burna; in centerline of triple Y-jct. of U. S. Highway 60 and State Highway 135; 10 ft N. of cedar tree; at base of flag pole; on concrete; chiseled square	554.01
U. E., Burna, 0.2 mi E. of junction of U. S. Highway 60 and State Highway 136, along Highway 60, thence 0.4 mi SE. along rd. to Mullikin; about 165 ft E. of small barn; 20 ft N. of corner of woods; 6 ft NE. of, and 0.5 ft lower than centerline of rd.; on end of corrugated drainpipe; chiseled X	605.93
U. E., Burna, 0.2 mi E. of junction of U. S. Highway 60 and State Highway 135, along Highway 60, thence 1.0 mi SE. along rd. to Mullikin; about 225 ft S. of buff shingled house; 9 ft N. and 35 ft W. of, and 1 ft higher than Y-jct. of county rd. and driveway NE.; on N. end of concrete drainpipe; chiseled square	631.16
Mullikin, 0.6 mi NW. of; 54 ft SE. of junction of rd. S.; 3 ft N. of fenceline; in concrete post; standard tablet stamped "TT 4 LJR 1952 513"	513.362
Reference mark, 73 ft E. of tablet; 7 ft S. of rd.; in S. end of corrugated drain pipe; chiseled X	512.98
Mullikin, 1.3 mi S. of; 40 ft N. and 10 ft W. of junction of T-rd. S.; in concrete post; standard tablet stamped "TT 3 LJR 1952 359"	359.093

SMITHLAND QUADRANGLE

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FeetLINE 1 (Cont'd.)

Reference mark, 48 ft S. and 30 ft W. of tablet; 18 ft S. of centerline of county rd.; on S. end of concrete drainpipe; chiseled square	353.08
U. E., at Vicksburg; 69 ft N. and 39 ft W. of NW. corner of old store; 36 ft E. of front of E. Guess's house; 18 ft W. of centerline of rd.; in stone yard stairs; in bottom step; chiseled square	344.20
Vicksburg, 0.4 mi SW. of; 97 ft N. of centerline of rd. at junction of I-rd. NW.; in concrete post; standard tablet stamped "IT 2 LJR 1952 355"	355.242
Reference mark, 30 ft S. and 54 ft W. of tablet; 6 ft N. of centerline of rd.; on culvert; in N. headwall; at W. end; chiseled square	349.91
Smithland, 3.5 mi NE. of; on high point of ridge known as Gravel Hill; on land owned and occupied by Mr. O. Burns; 28 ft S. of NW. corner of the farmhouse; 21 ft E. of fence; 18 ft W. of SW. corner of house; MGS standard triangulation station disk stamped "BURNS 1930"	594.463
Reference mark; 18 ft S. and 48 ft W. of disk; MGS standard reference mark disk stamped "BURNS NO 2 1930"	588.574
U. E., 0.9 mi SW. along county rd. from IT 2 LJR; about 700 ft SE. of large abandoned house; at creek crossing; 15 ft S. and 7 ft W. of, and 1 ft lower than centerline of wooden bridge; on SW. wingwall; chiseled square	352.92
U. E., 0.9 mi SW. along county rd. from triangulation station "BURNS 1930"; at junction of State Highway 70 and county rd. N. to Vicksburg; 45 ft N. and 120 ft E. of NE. corner of Livingston Chapel; at water well; on NW. corner of concrete wall; chiseled square	358.27
Smithland, 0.2 mi N. of post office, along U. S. Highway 60, thence 3.6 mi E. along State Highway 70, thence 0.8 mi S.; 35 ft E. of centerline of rd. at drive W.; in concrete post; standard tablet stamped "IT 1 LJR 1952 410"	409.569
Reference mark, 40 ft W. of tablet; 15 ft N. of I-junction of county rd. and driveway; in notch on W. side of 20-in. oak tree; copper nail and washer	407.97
Smithland, 4.25 mi E. of; 110 ft SE. of house of F. O. Martin; 30 ft N. and 50 ft E. of crossroads; 8 ft from large oak tree; in concrete post; standard tablet stamped "PRIM TRAV STA NO 43 M 1926 555" (Reported not found, 1958)	555.354
Reference mark, 59 ft N. and 18 ft E. of tablet; 18 ft E. of N.-S. rd.; on S. side of 12-in. oak tree; in root; copper nail and washer	555.47
Smithland, 1.5 mi SE. of; along State Highway 62, thence 0.7 mi E. along county rd.; 21 ft N. and 15 ft W. of, and 1.5 ft higher than I-jct. of E.-W. rd. and rd. N.; in concrete post; standard tablet stamped "17 THW 1953" (Reported destroyed, 1962)	467.505
Reference mark, 79 ft E. of tablet; 12 ft N. and 54 ft E. of I-junction of rds.; in notch on E. side of 24-in. oak tree; copper nail and washer	467.56
Smithland, in NE. corner of courthouse yard; 2 ft S. and 1 ft W. of corner fence around courthouse; in concrete post; standard tablet stamped "PRIM TRAV STA NO 44 M 1926" (Reported disturbed, 1953)	347.000

SMITHLAND QUADRANGLE
Book AV2016

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T. N. Williams

37-088-23

6

1953

LINE 2.

Feet

By T. N. Williams, 1953; Book AV2016

"PRIM TRAV STA NO 44 M 1926" (Described in line 1)	347.000
U. E., Smithland, 0.7 mi W. of courthouse, along U. S. Highway 60 to Burna; at S. end of bridge over the Cumberland River; 12 ft E. and 1 ft higher than centerline of hwy.; on bridge curbing; chiseled square	393.91
U. E., Smithland, 1.0 mi W. of courthouse, along U. S. Highway 60 to Burna at N. end of bridge over the Cumberland River; 15 ft E. and 1 ft higher than centerline of hwy.; in concrete bridge abutment; a chiseled square	358.89
Smithland, 1.8 mi W. of, along U. S. Highway 60 to Burna; 25 ft S. of private driveway E. of hwy.; 30 ft E. of centerline of hwy.; 3 ft W. of fenceline; in a concrete post; standard tablet stamped "1 THW 1953 346"	345.384
Reference mark, 375 ft S. of standard tablet; at I-fence E. of hwy.; on concrete culvert; chiseled square	345.65
U. E., 1.0 mi W. along U. S. Highway 60 to Burna from 1 THW 1953; at drain crossing; 170 ft S. and 20 ft W. of, and 2.5 ft lower than I-rd. jct. E.; on concrete culvert; chiseled square	338.86
Smithland, 3.75 mi W. of; 210 ft NW. of fork of rd.; 85 ft E. of Lucy Jefferson Lewis Monument; in concrete post; standard tablet stamped "PRIM TRAV STA NO 45 M 1926" (Reported disturbed, 1953)	344.936
Reference mark, 96 ft W. of tablet; 120 ft N. of centerline Y-rd. junction of U. S. Highway 137; on base of Lucy Jefferson Lewis Monument; chiseled square (Note: Lucy Jefferson Lewis Monument was hit by a car; however, the base of the monument appeared not to be disturbed)	344.70
U. E., 0.7 mi NW. along State Highway 137 to Birdsville from P. T. Station No. 45 M 1926; at creek crossing; 12 ft E. of, and 1 ft higher than centerline of rd.; on center of concrete bridge side rail; chiseled square	339.20
U. E., 1.1 mi NW. of, along State Highway 137 to Birdsville from P.T. Sta No. 45 M 1926; a L-rd. E.; 20 ft S. and 20 ft E. of, and level with centerline rd.; on concrete culvert; chiseled square	342.87
Smithland; 3.5 mi W. of, along U. S. Highway 60, thence 1.6 mi NW. along State Highway 137 to Birdsville; 150 ft N. and 25 ft W. and level with hwy. and private driveway; 50 ft S. and 25 ft W. of I-fence and hwy.; set in a concrete post; standard tablet stamped "2 THW 1953 340"	339.283
Reference mark, 307 ft NW. along State Highway 137 from standard tablet 2 THW 1953; at creek crossing; 12 ft W. of centerline of hwy.; on center of concrete rail; chiseled square	336.89
U. E., 0.9 mi W. along State Highway 137 to Birdsville from 2 THW 1953; at small drain crossing hwy.; 350 ft N. and 12 ft E. of private driveway; level with centerline of rd. at drain crossing; on concrete headwall; chiseled square	340.47

Feet

<u>LINE 2 (Cont'd.)</u>	
U. E., 1.5 mi along State Highway 137 to Birdsville from 2 THW 1953; at drain crossing; 50 ft N. and 20 ft E. of centerline of hwy. and private rd. E.; on concrete headwall; chiseled square	342.50
U. E., 1.8 mi along State Highway 137 to Birdsville from 2 THW 1953; at Birdsville; 125 ft S. and 15 ft E. of, and 1 ft lower than centerline of I-rd.; on concrete culvert; chiseled square	337.38
Birdsville, 300 ft E. of schoolhouse; E. of rd.; at SW. corner of Ellen Nelson's yard fence; in concrete post; standard tablet stamped "PRIM TRAV STA NO 46 M 1926"	419.885
Reference mark, 64 ft N. of, and 1 ft lower than tablet; 25 ft E. of, and 2 ft higher than rd.; on large buried sandstone rock; chiseled square	420.06
U. E., 2.3 mi along State Highway 137 from 2 THW 1953; 0.5 mi along State Highway 137 to Bayou from Birdsville; at top of small hill; 12 ft E. of, and 0.5 ft higher than centerline of rd.; on concrete headwall; chiseled square	365.50
U. E., 2.9 mi along State Highway 137 to Bayou from 2 THW 1953; 75 ft N. and 12 ft E. of, and level with private lane E.; on concrete headwall; chiseled square	369.92
Birdsville, 1.9 mi NW. along State Highway 137 to Bayou; 75 ft S. and 14 ft E. of, and 0.5 ft higher than centerline of I-rd. NE.; at small drain crossing; in concrete headwall; standard tablet stamped "3 THW 1953 349"	348.899
Reference mark, 102 ft NE. of tablet; 30 ft S. and 80 ft E. of, and 1 ft lower than centerline State Highway 137 and I-rd. E.; in notch in root of 20-in. elm tree; copper nail and washer	348.12
<u>Jogs into Golconda Quadrangle</u>	
Birdsville; 1.9 mi NW. along State Highway 137 to Bayou, thence 1.4 mi along county rd. to I-rd. junction, thence 2.1 mi E. along county rd. to Burna; at barn S. of rd.; 40 ft W. of barn at fence corner; 60 ft S. and 40 ft E. of, and 3 ft higher than centerline of rd. and private driveway; in concrete post; standard tablet stamped "5 THW 1953 525" (Reported disturbed, 1967)	524.920
Reference mark, 320 ft E. of tablet, 24 ft S. and 50 ft E. of, and 1 ft higher than rd. at rd. bend; in notch in root of 24-in. white oak tree; copper nail and washer	523.63
Burna; 0.5 mi SW. along U. S. Highway 60 from Burna Post Office, thence 1.8 mi W. along county rd. to Bayou from U. S. Highway 60; at Y-rd. junction at top of hill; 190 ft S. and 15 ft W. of, and 1.5 ft higher than Y-rd. junction; at edge of timber; in concrete post; standard tablet stamped "6 THW 1953 605"	604.598
Reference mark; 22 ft W. of, and 1 ft lower than tablet in notch in root of 12-in. hickory tree; copper nail and washer	603.27
U. E., 0.4 mi E. along county rd. to Burna from 6 THW 1953; at drain crossing; 12 ft N. of, and level with centerline of rd.; on concrete headwall; chiseled square	537.47
U. E., 1.1 mi E. along county rd. to Burna from 6 THW 1953; at drain crossing; 12 ft S. of, and 1 ft higher than centerline rd. at drain crossing; on concrete headwall; chiseled square	528.10

LINE 2 (Cont'd.)

	Feet
U. E., 1.7 mi E. along county rd. to Burna from 6 THW 1953; at drain crossing; 12 ft N. of centerline of rd.; on concrete headwall; chiseled square	519.97
"PRIM TRAV STA NO 5 1915 RESET 1952 559" (Described in line 1)	559.016

LINE 3.

By J. J. Recktenwald, 1953; Book AV2022

"PRIM TRAV STA NO 5 1915 RESET 1952 559" (Described in line 1) (Also in line 2)	559.016
Reference mark; 103 ft N. of tablet; 30 ft E. of rd.; 2 ft W. of fence line; in root on E. side of 30-in. oak tree; copper nail and washer	563.47
U. E., Burna; in centerline of triple Y-jct. of U. S. Highway 60 and State Highway 135; 10 ft N. of cedar tree; at base of flagpole; on concrete; chiseled square	553.99

LINE 4.

By J. J. Recktenwald, 1953; Book AV2022

Bayou, 100 ft W. of post office; at crossroads; SW. corner; on iron post; standard cap stamped "343 KY. 1916" (Reported destroyed, 1954)	342.205
"3 THW 1953 349" (Described in line 2)	348.899

LINE 5.

By W. P. Rapp, 1966; CV 2000

U. E., 1.0 mi N. and 1.25 mi E. of tablet; near E. quarter corner section 12, T. 16 S., R. 6 E., at drain crossing E.-W. rd.; 20 ft S. of centerline rd.; on 6 ft corrugated metal pipe culvert, center of culvert of three; 1.5 ft N. of S. end; chiseled square	353.38
Hamletsburg, 2.0 mi W. of; near center of NW ^{1/4} section 7, T. 16 S., R. 7 E.; in center of grassy triangle formed by NW-SE. rd. and T-rd. W., 10 ft NW. of a lone 34-in. tree; 1 ft N. of a witness post; in concrete post; standard tablet stamped "32 WPR 1966"	364.518
Reference mark, 58 ft NW. of tablet; 30 ft N. and 53 ft W. of centerline of N-S. rd. at T-rd. W.; on 16-in. concrete culvert; 0.4 ft S. of N. end; chiseled square	363.79
U. E., 0.7 mi N. along rd. from tablet (32 WPR 1966); 44 ft W. of center of rd.; at an abandoned church; on SE. corner of first concrete step; chiseled square	465.67
U. E., 1.5 mi NW. along rd. from tablet (32 WPR 1966) 21 ft S. and 21 ft W. of center of N-S. rd. at field entrance W.; on 3 ft concrete culvert, E. culvert of two; 0.8 ft N. of S. end; chiseled square	360.74
Hamletsburg, 1.0 mi N. and 3.0 mi W. of; about 0.25 mi W. of corner section 1, 6, 31 and 36; Tps. 15 and 16 S., Rs. 6 and 7 E.; 181 ft N. and 30 ft W. of center of NW-SE. rd. at T-rd. W., 1 ft S. of E.-W. fence; 1 ft E. of a witness post; in concrete post; standard tablet stamped "33 WPR 1966"	421.388

lower than center of N.-S. rd. at T-rd. W., in E. side of a 10-in. oak tree; rail spike

476.79

Jogs into Paducah Quadrangle

U. E., 1.0 mi E. along trail from Massac Lookout Tower; 585 ft W. of small grave site; 37 ft S. and 0.9 ft lower than center of E.-W. trail opposite U.E., in W. side of an 18-in. oak tree; rail spike

527.58

U. E., 1.5 mi E. along trail from Massac Lookout Tower; near junction of dim trail E.; 24 ft E. and 0.3 ft higher than center of N.-S. trail opposite U. E.; in NW. side of an 18-in. oak tree, rail spike

521.69

U. E., about 2.5 mi E. along trail from Massac Lookout Tower; in NW. section 29, T 15 S., R. 7 E., 15 ft N. and 38 ft W. of, and 0.8 ft higher than centerline of N.-S. rd.; at trail W.; in SE. side of a 12-in. oak tree; rail spike

462.80

Mamletburg, 3.0 mi N. and 2.0 mi W. of; 4.0 mi S. and 1.4 mi E. of Bay City, approximately 0.1 mi E. of corner section 19, 20, 29 and 30; T. 15 S., R. 7 E., near point NW.-SE. rd. turns W.; 105 ft NE. of center of rd. curve; 81 ft SE. of SE. corner of new house; 14 ft N. of center of trail E.; 6 ft E. of N.-S. fence; in concrete post; standard tablet stamped "35 WPR 1966"

432.415

Reference mark, 103 ft ESW. of tablet; at W. end of rd. curve; 32 ft N. of centerline of rd.; 33 ft W. of driveway N.; in S. side of power pole; rail spike

432.41

U. E., 0.75 mi NW. along rd. from tablet; (35 WPR 1966); near a small wood bridge at creek crossing; 79 ft S. of center of bridge; 22 ft E. of center of N.-S. rd.; in W. side of power pole; rail spike

344.48

U. E., 1.3 mi W. and N. along rd. from tablet (35 WPR 1966) at point N.-S. rd. turns W.; 21 ft E. of extended center of N.-S. rd.; 34 ft S. of centerline of private rd. E., in S. side of power pole No. 92; rail spike

383.12

Bay City, 3.2 mi S. and 0.5 mi E. of; about 0.1 mi E. of corner sections 13, 18, 19 and 24; T. 15 S. Rs. 6 and 7 E., at a steel bridge over Dog Creek; 14 ft S.; 42 ft E. of, and 0.7 ft lower than center of bridge, on SE. concrete wingwall; in drill hole; standard tablet stamped "TT 2 LJR 1953"

348.480

U. E., 0.85 mi W. and N. along rd. from tablet (TT 2 LJR 1953) at point where powerline crosses N.-S. rd.; at hill crest; 21 ft W. of center of rd.; in E. side of power pole; rail spike

496.99

Bay City, 2.0 mi S. of; about 0.2 mi E. of center of sections 12, T. 15 S., R. 6 E., 26 ft N. and 22 ft W. and 1.3 ft higher than center of N.-S. rd at T-rd. E.; 43 ft SE. of SE. corner of a house; 1.8 ft E. of N.-S. fence, in concrete post; standard tablet stamped "TT 3 LJR 1953"

533.387

LINE 5 (Cont'd.)

Reference mark, 60 ft NE. of tablet; 60 ft N. and 26 ft E. of center of N.-S. rd at I-rd E., in W. side of a 30-in. oak tree; rail spike

Feet

532.54

U. E., 0.5 mi N. of tablet (TI 3 LJR 1953) 27 ft S. and 50 ft E. of, and 3.0 ft lower than center of N.-S. rd. at drive W. to abandoned school; in W. side of a 12-in. oak tree; rail spike

521.48

U. E., 1.1 mi N. along rd. from tablet (TI 3 LJR 1953) at crest of long hill; 20 ft E. of centerline N.-S. rd.; 20 ft W. of SE. corner of an abandoned house; in W. side of a 24-in. maple tree; rail spike

537.77

U. E., 1.5 mi N. along rd. from tablet (TI 3 LJR 1953) about 0.5 mi SW. of Bay City; 22 ft S. and 40 ft E. of center of NE.-SW. rd. at I-rd. S., in root on W. side of lone 60-in. tree; rail spike

571.29

Bay City; in SEC section 36, T. 14 S., R. 6 E.; 128 ft N. of NE. corner of general store; 100 ft N. and 38 ft W. of and 9.9 ft higher than center of N.-S. rd. at drive W.; on iron pipe; USED with standard cap stamped "171"

360.762

Reference mark, 52 ft E. of tablet; 85 ft N. and 14 ft E. of center of N.-S. rd. at drive W.; at concrete culvert; on top and center of E. concrete headwall; chiseled square

354.81

HORIZONTAL CONTROL
NORTH AMERICAN DATUM OF 1927

37-088-23
SMITHLAND QUADRANGLE
79 KY.-1 ILL.
N3700-W8815/15
DIAGRAM MJ 16-7
PADUCAH

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Livingston, McCracken, and Marshall Counties,
Kentucky; Massac and Pope Counties, Illinois

Only the permanent marks are
listed for control classified
obsolete and are not shown on
sketch

Edition of 1/12/78

PR: CRV/rmm

Plane coordinates are based on Lambert projection,
Kentucky, South Zone, and transverse Mercator
projection, Illinois, East Zone

GOLCONDA
(108 KY.-7 ILL.)

PADUCAH
(80 KY.-2 ILL.)

EDDVILLE
(78)

Smithland

37°00'

88°15'

BENTON
(51)

DISCLAIMER

We no longer attest to the validity of the positions listed for horizontal control established by transit traverse procedures. This control is now considered OBSOLETE and is included in this list for the purpose of identification only.

79 KY.-1 ILL.
SMITHLAND QUADRANGLE

37-088-23
N3700-W8815/15

INDEX OF PERMANENT MARKS

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BL STA 37 ELEVATION 328.22	5
BL STA 42 ELEVATION 321.83	5
BM NO 171	6
BM NO 1303	7
NO 4 1937	5

79 KY.-1 ILL.
SMITHLAND QUADRANGLE

37-088-23

3

STATION	DESCRIPTION	LATITUDE	LONGITUDE
	PLANE COORDINATES, FEET	° ' "	° ' "

The following positions are considered OBsolete. To be used only to locate permanent marks in the field.

By C. R. Fisher, 1925; Books C7280-85

Bay City, 2.0 mi S. of; at 1/4 cor. between secs. 13 and 18; at junction of T-rd. N.; in concrete post; standard tablet stamped "PRIM TRAV STA NO 123 F 1925"

Ky. S.) X = 1,202,102 Y = 331,133 37 12 39.80 88 29 25.00

New Liberty, 3.0 mi S. of; 20 ft S. and 20 ft W. of junction of T-rd. NW.; in concrete post; standard tablet stamped "PRIM TRAV STA NO 120 F 1925" (Not found, 1958)

X = 1,208,091 Y = 285,031 37 05 05.90 88 27 54.60

By S. H. Moyers, 1926; Books C7824-25

Smithland; in NE. corner of courthouse yard; 2 ft S. and 1 ft W. of corner of fence around courthouse; in concrete post; standard tablet stamped "PRIM TRAV STA NO 44 M 1926" (Reported disturbed, 1953)

X = 1,226,626 Y = 304,151 37 08 20.05 88 24 12.58

Birdsville; 300 ft E. of schoolhouse; on E. side of rd.; at SW. corner of fence around yard of Ellen Nelson; in concrete post; standard tablet stamped "PRIM TRAV STA NO 46 M 1926"

X = 1,214,314 Y = 333,976 37 13 11.39 88 26 55.09

Birdsville, 3.0 mi NE. of; 0.7 mi SW. of Moselle School; 35 ft N. and 10 ft E. of crossroads; on bank; in concrete post; standard tablet stamped "PRIM TRAV STA NO 47 M 1926"

X = 1,226,659 Y = 339,758 37 14 12.00 88 24 24.54

Burna, 0.6 mi SW. of; on E. side of rd. at junction of T-rd. W.; in concrete post; standard tablet stamped "PRIM TRAV STA NO 5 1915 RESET 1952"

X = 1,238,688 Y = 339,917 37 14 16.89 88 21 55.90

By S. H. Moyers, 1926; Book C7825

Smithland, 4.0 mi S. of, along U. S. Highway 60; 37 ft N. and 7 ft W. of crossroads; 3 ft S. of corner fence in SE. corner of field; in concrete post; standard tablet stamped "PRIM TRAV STA NO 48 M 1926" (Not found, 1958)

X = 1,223,762 Y = 284,763 37 05 07.60 88 24 41.20

79 KY.-I ILL.
SMITHLAND QUADRANGLE

37-088-23

4

STATION	DESCRIPTION	LATITUDE	LONGITUDE
	PLANE COORDINATES, FEET	° ' "	° ' "

OBSOLETE MARKS (Cont'd.)

Smithland, 9.8 mi SW. of, 1.2 mi SW. of Ledbetter Post Office, along U. S. Highway 60; 30 ft N. of centerline of hwy. directly in front of Panhandle School; 19 ft S. of blazed oak tree; in concrete post; standard tablet stamped "PRIM TRAV STA NO 50 M 1926"

Ky. S.) X = 1,198,158 Y = 271,266 37 02 46.98 88 29 52.21

Little Cypress, 3.0 mi W. of, along Illinois Central Railroad; at Styles rd. crossing; at S. side of RR. right-of-way; 0.2 mi E. of milepost L218; 50 ft S. and 30 ft W. of Styles Road crossing; 215 ft W. of signal tower; in concrete post; standard tablet stamped "PRIM TRAV STA NO 52 M 1926" (Reported disturbed, 1958)

X = 1,197,274 Y = 261,526 37 01 10.45 88 29 59.60

Little Cypress; 600 ft W. of I. C. RR. express station; 27 ft S. of S. rail of eastbound track; 72 ft NE. of NE. corner of residence of Harry Corder; in NE. corner of frontyard; 4 ft S. of telephone pole; in concrete post; standard tablet stamped "PRIM TRAV STA NO 53 M 1926"

X = 1,212,967 Y = 259,905 37 00 58.90 88 26 45.61

Calvert City, 2.5 mi W. of; at Cloud Crossing; 40 ft S. and 26 ft W. of centerline of northbound track; in concrete post; standard tablet stamped "PRIM TRAV STA NO 54 M 1926" (Reported destroyed, 1958)

X = 1,229,926 Y = 265,337 37 01 57.33 88 23 18.46

Calvert City, directly in front of Lee Cox's Store between rd. and RR.; 135 ft W. and 33 ft S. of SW. corner of RR. station; in concrete post; standard tablet stamped "PRIM TRAV STA NO 55 M 1926" (Not found, 1958)

X = 1,241,600 Y = 264,720 37 01 54.43 88 20 54.30

Gilbertsville; 215 ft NW. of RR. station; 27 ft SW. of nearest rail; 6 ft S. of edge of grassy bank; 3 ft N. and 7 ft W. of telephone pole; in concrete post; standard tablet stamped "PRIM TRAV STA NO 56 M 1926" (Reported destroyed, 1958)

X = 1,260,060 Y = 258,129 37 00 54.23 88 17 04.56

Smithland, 10.9 mi SE. of, 1.2 mi SE. of Paradise Church; 25 ft N. and 15 ft E. of intersection of rds.; 250 ft SE. of residence of C. E. Enger; 5 ft N. and 4 ft W. of oak tree; in concrete post; standard tablet stamped "PRIM TRAV STA NO 60 M 1926" (Not found, 1958)

X = 1,261,894 Y = 282,512 37 04 55.74 88 16 50.01

79 KY.-1 ILL.
SMITHLAND QUADRANGLE

37-088-23
5

STATION	DESCRIPTION	LATITUDE	LONGITUDE
	PLANE COORDINATES, FEET	° ' "	° ' "

OBsolete MARKS (Cont'd.)

By L. J. Roberts, 1952-53; Book AH 2006

Smithland, 0.2 mi N. of post office, along U. S. Highway 60, thence 3.6 mi E. along State Highway 70, thence 0.8 mi S.; 35 ft E. of centerline of rd. at drive W.; in concrete post; standard tablet stamped "TT 1 LJR 1952 410"

Ky. S.) X = 1,246,036 Y = 303,199 37 08 15.96 88 20 12.63

Vicksburg, 0.4 mi SW. of; 97 ft N. of centerline of rd. at junction of T-rd. NW.; in concrete post; standard tablet stamped "TT 2 LJR 1952 355"

X = 1,246,244 Y = 328,387 37 10 51.09 88 20 15.39

Livingston Chapel, 3.0 mi N. of; 570 ft E. of centerline of rd.; 10 ft inside woods at edge of pasture; USED H. W. mark monument designated "NO 4 1937"

X = 1,247,847 Y = 319,974 37 11 02.27 88 19 55.94

Mullikin, 1.3 mi S. of; 40 ft N. and 10 ft W. of junction of T-rd. S.; in concrete post; standard tablet stamped "TT 3 LJR 1952 359"

X = 1,249,478 Y = 328,674 37 12 28.70 88 19 38.72

Mullikin, 0.6 mi NW. of; 54 ft SE. of junction of rd. S.; 3 ft N. of fenceline; in concrete post; standard tablet stamped "TT 4 LJR 1952 513"

X = 1,247,546 Y = 336,339 37 13 43.93 88 20 05.19

USED monumented mark stamped "BL STA 42 ELEVATION 321.83" (No description available)

X = 1,225,385 Y = 306,199 37 08 39.96 88 24 28.61

USED monumented mark stamped "BL STA 37 ELEVATION 328.22" (No description available)

X = 1,224,521 Y = 308,571 37 09 03.16 88 24 40.10

Hamletsburg, 1.8 mi W. and 0.5 mi N.; near S. 1/4 cor. sec. 5, T. 16 S. R. 7 E.; 25 ft S. and 30 ft E. of junction of T-rd. W.; 240 ft N. and 30 ft E. of junction of T-rd. E.; 17 ft E. of NW. corner of yard at Yellowbird School; in concrete post; standard tablet stamped "PRIM TRAV STA NO 121 F 1925 343" (Reported destroyed, 1966)

X = 1,209,358 Y = 306,977 37 08 43.18 88 27 46.76

79 KY.-1 ILL.
SMITHLAND QUADRANGLE

37-088-23

6

STATION	DESCRIPTION	LATITUDE	LONGITUDE
	PLANE COORDINATES, FEET	° ' "	° ' "

OBsolete MARKS (Cont'd.)

New Liberty, 3.9 mi NW. of; 306 ft N. of junction of T-rd.; 32 ft E. of centerline of N.-S. rd.; in NW. corner of yard of Jacobs School; 2 ft S. of E.-W. fence; in concrete post; standard tablet stamped "TT 1 LJR 1953"

Ky. S.) X = 1,209,800 Y = 317,745 37 10 29.69 88 27 45.12

New Liberty, 5.0 mi NW. of; 100 ft N. and 50 ft W. of rd. forks; 40 ft N. and 30 ft W. of small bridge; in concrete post; standard tablet stamped "PRIM TRAV STA NO 122 F 1925" (Reported destroyed, 1966)

X = 1,208,509 Y = 322,960 37 11 20.87 88 28 02.92

Bay City, 3.2 mi S. and 0.5 mi E. of; about 0.1 mi E. of corner secs. 13, 18, 19 and 24, T. 15 S., R. 6 and 7 E.; at steel bridge over Dog Creek; 14 ft S. & 42 ft E. of and 0.7 ft lower than center of bridge; on SE. concrete wingwall; in drill hole; standard tablet stamped "TT 2 LJR 1953"

X = 1,202,292 Y = 328,499 37 12 13.84 88 29 21.70

Bay City, 2.0 mi S. of; about 0.2 mi E. of center of sec. 12, T. 15 S., R. 6 E.; 26 ft N. and 22 ft W. of and 1.3 ft higher than center of N.-S. rd. at T-rd. E.; 43 ft SE. of SE. corner of porch of residence of J. L. McCurd; 2 ft E. of fence; in concrete post; standard tablet stamped "TT 3 LJR 1953"

X = 1,200,633 Y = 336,548 37 13 32.91 88 29 45.09

Bay City, in SE. 1/4 sec. 36, T. 14 S., R. 6 E.; 128 ft N. of NE. corner of general store; 100 ft N. and 38 ft W. of, and 9.9 ft higher than center of N.-S. rd. at drive W.; on iron pipe; USED standard cap stamped "BM NO 171"

X = 1,200,485 Y = 345,323 37 14 59.60 88 29 50.08

MARKS TIED BY NGS

By S. H. Moyers, 1926; Books C7824-25

Smithland, 8.3 mi SE. of; 1.5 mi NE. of Paradise Church; 90 ft S. and 70 ft W. of centerline of rd. at junction of rd. S.; 300 ft S. of residence of W. M. Cotter; 30 ft from barn; in concrete post; standard tablet stamped "PRIM TRAV STA NO 42 M 1926"

Ky. S.) X = 1,264,420.30 Y = 292,996.71 37 06 40.038 88 16 22.300

Smithland, 4.3 mi E. of; 30 ft N. and 50 ft E. of crossroads; 110 ft SE. of residence of F. C. Martin; 8 ft from large oak tree; in concrete post; standard tablet stamped "PRIM TRAV STA NO 43 M 1926" (Not found, 1958)

X = 1,244,883.28 Y = 295,944.33 37 07 03.946 88 20 24.404

79 KY.-1 ILL.
SMITHLAND QUADRANGLE

37-088-23

7

STATION	DESCRIPTION	LATITUDE	LONGITUDE
	PLANE COORDINATES, FEET	° ' "	° ' "

MARKS TIED BY NGS (Cont'd.)

Smithland, 3.8 mi N. of, along U. S. Highway 60; 210 ft NW. of centerline of hwy. at junction of rd. NW.;
85 ft E. of Lucy Jefferson Lewis Monument; in concrete post; standard tablet stamped
"RRIM TRAV STA NO 45 M 1926" (Reported disturbed, 1953)

Ky. S.) X = 1,224,634.25 Y = 320,671.21 37 11 02.784 88 24 42.915

By S. H. Moyers, 1926; Book C7825

Smithland, 6.7 mi SW. of, along U. S. Highway 60; 0.6 mi SW. of Lower Mud Spring School; 90 ft S. and 45 ft
W. of centerline of hwy. at junction of rd. S. to residence of W. L. Bellamy; 40 ft W. of private
garage; in concrete post; standard tablet stamped "PRIM TRAV STA NO 49 M 1926" (Not found, 1958)

X = 1,214,213.09 Y = 274,053.94 37 03 19.101 88 26 35.224

By L. J. Roberts, 1952-53; Book AH 2006

Ohio River; 600 ft from left bank of; opposite upper end of Smithland; 25 ft from right bank of
Cumberland River; on property of L. Adams; on upstream edge of rd. to ferry; on iron pipe; USED
standard cap stamped "BM NO 1303"

X = 1,225,650 Y = 306,735 37 08 45.32 88 24 25.52

Graves County, Kentucky (Ortho)
 CH-3564
 Swift-Hale-Milaro

GPS

PP Ties

Station Description	Plane Coordinates	Latitude	Longitude
	X Y	° ' "	° ' "
1& Rd @ Drive East			
Photo 284-153	Palmersville 7 $\frac{1}{2}$ '		185 TN
KY-S 1,155,238.497 67,314.841	36 28 58.56116	88 37 24.86891	
2& Centerline X-rds			
Photo 320-119	Farmington 7 $\frac{1}{2}$ '		24 KY
KY-S 1,191,506.588 121,015.569	36 38 00.00241	88 30 20.16578	
3& Centerline T-rd North			
Photo 284-135	Cottage Grove 7 $\frac{1}{2}$ '		184 TN
KY-S 1,226,383.366 68,591.459	36 29 31.67312	88 22 54.54235	
4& Rd @ Drive East			
Photo 284-139	Dexter 7 $\frac{1}{2}$ '		51 KY
KY-S 1,232,595.102 162,417.414	36 45 00.77825	88 22 10.35884	
5& Centerline T-rd South			
Photo 284-143	Calvert City 7 $\frac{1}{2}$ '		79 KY
KY-S 1,235,401.585 254,922.765	37 00 15.89588	88 22 07.39003	
6& Centerline T-rd North			
Photo 272-11	Paducah West 7 $\frac{1}{2}$ '		80 KY
KY-S 1,129,774.497 261,895.497	37 00 53.86366	88 43 51.65722	
7& Centerline T-rd North			
Photo 268-227	Heath 7 $\frac{1}{2}$ '		81 KY
KY-S 1,091,477.313 259,526.181	37 00 18.23919	88 51 42.64327	
8& Centerline T-rd SSE			
Photo 320-121	West Plains 7 $\frac{1}{2}$ '		52 KY
KY-S 1,161,947.709 165,388.243	36 45 09.88302	88 36 39.11582	
9& Centerline T-rd South			
Photo 36-61	Water Valley 7 $\frac{1}{2}$ '		25 KY
KY-S 1,088,798.963 76,592.589	36 30 09.48626	88 51 01.64575	

79 KY.-1 ILL.
SMITHLAND QUADRANGLE

**MAP CONTROL
NOT FOR DISTRIBUTION**

37-088-23
1 of 1

SUPPLEMENTAL

By R. W. Sidie, 1965; Book CH 2064

1000. NGS triangulation station "BURNS"

Ky. S.) $X = 1,243,728.62$ $Y = 310,451.50$ 37 09 27.024 88 20 43.575

1002. Fence corner

$X = 1,243,825$ $Y = 310,454$ 37 09 27.08 88 20 42.39

0. NGS triangulation station "SMITHLAND MUNICIPAL WATER TANK"

$X = 1,227,826.95$ $Y = 303,017.29$ 37 08 09.18 88 23 57.36

0&. Base of S. leg of water tower (Flt. 5, Photo 1-152)

$X = 1,227,827$ $Y = 303,001$ 37 08 09.01 88 23 57.35

By L. B. Robison, 1965; Book CH 2062

850. NGS triangulation station "BURNA 1957"

$X = 1,242,574.12$ $Y = 338,578.56$ 37 14 04.72 88 21 07.40

850A. Center of water trough (Flt. 1, Photo 1-262)

$X = 1,242,691$ $Y = 338,442$ 37 14 03.40 88 21 05.91

850B. Corner fences SE.-SW. (Flt. 1, Photo 1-262)

$X = 1,242,632$ $Y = 338,432$ 37 14 03.29 88 21 06.63

1-2-87
EBF

Kentucky Horizontal Accuracy Project 1
11/86 CS 616

Third-Order PP Sta's

			X	Y	LAT.	LONG.
100A	T-Drive S. HAP-80	326-27 1602	1396748.51	200991.30	36 52 02.30	87 48 <u>44.21</u> Qd 49 KY
200&	Center N-S. Rd. @ S. Edge of Parking Lot W. HAP	326-27 FLT 6 1602	1418010.65	204023.81	36 52 36.79	87 44 <u>23.40</u> Qd 48 KY
300&	SE. Cor. House HAP	312-129 1602	1428360.23	200507.88	36 52 04.16	87 42 <u>15.16</u> Qd 48 KY
400A	Center Y-Rd. NW. HAP 11/21/83	352-93 FLT 1 1602	1211142.79	344990.69	37 14 59.36	88 27 <u>38.19</u> Qd 79 KY
400B&	Center T-Rd. SE HAP 11/21/83	352-93 FLT 1 1602	1213543.00	346933.00	37 15 19.24	88 27 <u>09.20</u> Qd 108 KY
500A	NE Cor. of Shed Adjoining Barn HAP 11/21/83	352-81 FLT 2 1602	1269101.00	348038.00	37 15 45.31	88 15 <u>42.60</u> Qd 108 KY
500F	Center of Hwy. @ Drive N. HAP 11/21/83	352-81 FLT 2 1602	1269186.00	347775.00	37 15 42.74	88 15 <u>41.46</u> Qd 108 KY
600A&	Center Rd. @ Drive NN-W. HAP 3/25/83	308-155 FLT 3 1602	1288932.00	342227.00	37 14 53.02	88 11 <u>35.50</u> Qd 78 KY
700F&	Center rd. @ Drive HAP 11/21/83	352-91 FLT 1 1602	1200606.00	345284.00	37 14 59.25	88 29 <u>48.56</u> Qd 79 KY
800A&	Center T-rd. W. HAP 11/21/83	352-83 FLT 2 1602	1264482.00	293002.00	37 06 40.11	88 16 <u>21.54</u> Qd 79 KY
800B&	Center Hwy. @ Drive W. HAP 11/21/86	352-83 FLT 2 1602	1264375.00	292601.00	37 06 36.11	88 16 <u>22.73</u> Qd 79 KY
1400A	T-fence N. HAP 11/21/83	352-89 FLT 1 1602	1207523.06	250735.50	36 59 26.73	88 27 <u>49.46</u> Qd 51 KY

		X	Y	LAT.	LONG.
900A&	Center T-rd. S.				
HAP	4/14/82	226-65	FLT 5		
		1602	1351877.00	37 00 55.09	87 58 <u>12.12</u> Qd 77 KY
900B	Center rd. @ entrance E.				
HAP	4/14/82				
		1602	1351736.12	37 00 42.72	87 58 <u>13.50</u> Qd 77 KY
1000A	SW. Cor. of Black Square Building				
HAP	4/14/82	226-63	FLT 5		
		1602	1380784.75	37 07 24.29	87 52 26.51 Qd 77 KY
1100A&	Center rd. @ Drive E.				
HAP	11/21/83	352-89	FLT 1		
		1602	1198936.38	36 59 20.82	88 29 <u>35.13</u> Qd 51 KY
1100B&	Center T-rd. W.				
HAP	11/21/83	352-89	FLT 1		
		1602	1198956.80	36 59 25.36	88 29 <u>35.04</u> Qd 51 KY
1200A&	Center rd. @ Entrance NW.				
HAP	11/25/83	356-49	(West OE)		
		1602	1191928.00	37 10 32.44	88 31 <u>26.14</u> Qd 79 KY
800C	Center rd. @ Timber line NNE.				
HAP	11/21/83	352-83	FLT 2		
		1602	1264159.77	37 06 39.82	88 16 <u>25.51</u> Qd 79 KY
GPS 3&	Center rd. at Center Drive NW.				
HAP	3/25/83	309-109	FLT 4		
		1602	1338705.00	37 14 47.46	88 01 <u>19.55</u> Qd 78 KY
GPS 4&	Center rd. @ Field Rd. E.				
HAP		226-37	FLT 6		
		1602	1410095.00	37 15 57.22	87 46 <u>38.26</u> Qd 106 KY
GPS 5&	Center T-rd. NE.				
HAP	4/14/82	226-33	FLT 6		
		1602	1415728.00	37 00 48.40	87 45 <u>04.47</u> Qd 77 KY
GPS 6&	Center Lone Cedar Tree				
HAP		28-153	FLT 4		
		1602	1330673.00	36 54 05.34	88 02 <u>21.26</u> Qd 50 KY
GPS 7&	Center Rd. @ Drive W.				
HAP	2/25/81	284-195	FLT 2		
		1602	1264338.00	36 52 10.05	88 15 <u>54.39</u> Qd 51 KY
GPS 8&	Center Rd. @ Drive S.				
HAP	2/25/81	284-141	FLT 1		
		1602	1194276.00	36 53 01.06	88 30 <u>18.79</u> Qd 52 KY